

Appl. No. 09/778,004
Amdt. Dated November 23, 2004
Reply to Office action of August 23, 2004
Attorney Docket No. P13236-US2
EUS/J/P/04-3278

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for reserving resources in a wireline network from a wireless network, ~~in wireline and wireless networks~~ comprising the steps of:

sending a resource reservation request from a mobile terminal to a service broker;

the service broker contacting: (1) a bandwidth broker to determine available resources in the wireline network and (2) a geographical domain server for information regarding wireless access for the requested reservation and (3) one or more radio bearer brokers to determine resources available in a particular wireless network; and

reserving the requested services if the resources are available or denying the requested services if the resources are not available.

~~sending a reservation request for a terminal to a service reservation node requesting a reservation of resources;~~

~~determining, by the service reservation node, whether resources in the wireless network and the wireline network are available;~~

~~reserving, by the service reservation node, resources in the wireline network and the wireless network in accordance with the determined available resources.~~

2. (Canceled)

3. (Currently Amended) The method of claim 1 [[2]], wherein the service broker and the terminal are associated with a first network operator and wherein if resources are not available in the first network operator's network, contacting, by the service broker, another service broker associated with another network operator to determine if resources are available.

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4. (Original) The method of claim 1, wherein the reservation request includes information related to the service requirements for a communication session associated with the reservation.

5. (Currently Amended) The method of claim 4, wherein the information related to the service requirements includes information selected from the group comprising consisting of:

information regarding the access technologies supported by the terminal, information regarding the services desired by the terminal, information regarding the requirements for the services desired by the terminal, information regarding the geographic area over which the service is required, information regarding the duration of the reservation, information regarding the time span over which the reservation can be made, information regarding the grade of the reservation and information regarding the mobility of the terminal.

6. (Currently Amended) The method of claim 1, wherein the step of determining the service broker contacting, comprises the steps of:

sending a message to the [[a]] geographical domain server requesting information as to the network nodes that are located in a geographic area which can reserve the requested resource; and

receiving a message from the geographical domain server indicating the network nodes that are located in the geographic area which can provide the requested resource.

7. (Original) The method of claim 6, wherein the network nodes that are located in the geographic area which can reserve the requested resource are radio bearer brokers which reserve resources in the wireless network.

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8. (Currently Amended) The method of claim 6, wherein the step of ~~determining the service broker contacting~~ further comprises the steps of:

sending a message to network nodes in the wireline network which are connected to the network node located in the geographic area which can provide the requested resource; and

receiving responses from the network nodes in the wireline network.

9. (Original) The method of claim 8, wherein the network nodes in the wireline network are bandwidth brokers.

10. (Original) The method of claim 1, wherein the reservation is made for the terminal by another terminal for a different geographic location than a geographic location from which the another terminal sent the reservation request.

11. (Original) The method of claim 1, wherein the determination of whether resources are available is based upon a historical analysis of traffic load, configuration parameters, characteristics of a radio environment for an area of the wireless network to be reserved and the amount of already reserved resources.

12. (Original) The method of claim 1, wherein a guaranteed reservation is made with a first wireless network which uses a local area network access technology and a non-guaranteed reservation is made with a second wireless network which uses a wide area network access technology, wherein if resources are not available in the first wireless network, the terminal uses the second wireless network for a communication session.

13. (Original) The method of claim 1, further comprising the steps of: providing the terminal with information related to the types of resources which can be reserved, wherein the resources are reserved based upon the information.

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14. (Canceled)

15. (Currently Amended) A apparatus for reserving resources in a wireline network from a wireless network, and wireless networks comprising:

a mobile terminal for requesting resource reservation in a wireline network;

a service broker for contacting:

a bandwidth broker to determine available resources in the wireline network;

a geographical domain server for information regarding wireless access for the requested reservation;

one or more radio bearer brokers to determine resources available in a particular wireless network; and

means for reserving the requested services if the resources are available or denying the requested services if the resources are not available.

~~a service reservation node, wherein a reservation request is sent to the service reservation node requesting a reservation of resources,~~

~~wherein the service reservation node determines whether resources in the wireless network and the wireline network are available, and~~

~~wherein the service reservation node reserves resources in the wireline network and the wireless network in accordance with the determined available resources.~~

16. (Canceled)

17. (Currently Amended) The apparatus of claim 15 [[16]], wherein the service broker and the terminal are associated with a first network operator and wherein if resources are not available in the first network operator's network, contacting, by the service broker, another service broker associated with another network operator to determine if resources are available.

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18. (Original) The apparatus of claim 15, wherein the reservation request includes information related to the service requirements for a communication session associated with the reservation.

19. (Currently Amended) The apparatus of claim 18, wherein the information related to the service requirements includes information selected from the group comprising ~~consisting of~~:

Information regarding the access technologies supported by the terminal, information regarding the services desired by the terminal, information regarding the requirements for the services desired by the terminal, information regarding the geographic area over which the service is required, information regarding the duration of the reservation, information regarding the time span over which the reservation can be made, information regarding the grade of the reservation and information regarding the mobility of the terminal.

20. (Currently Amended) The apparatus of claim 15, wherein the geographical domain server of further comprises ~~comprising~~:

~~a geographical domain server, wherein the geographical domain server receives~~ means for receiving a request for information as to the network nodes that are located in a geographic area which can reserve the requested resource, ~~and~~

~~wherein the geographical domain server sends~~ means for sending a message indicating the network nodes that are located in the geographic area which can provide the requested resource.

21. (Original) The apparatus of claim 20, wherein the network nodes that are located in the geographic area which can reserve the requested resource are radio bearer brokers which reserve resources in the wireless network.

22. (Currently Amended) The apparatus of claim 15 ~~[[20]]~~, ~~further comprising~~:

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~~a bandwidth broker~~, wherein the bandwidth broker provides a message indicating network nodes in the wireline network which are connected to the network node located in the geographic area which can provide the requested resource.

23. (Original) The apparatus of claim 15, wherein the reservation is made for the terminal by another terminal for a different geographic location than a geographic location from which the another terminal sent the reservation request.

24. (Original) The apparatus of claim 15, wherein the determination of whether resources are available is based upon a historical analysis of traffic load, configuration parameters, characteristics of a radio environment for an area of the wireless network to be reserved and the amount of already reserved resources.

25. (Original) The apparatus of claim 15, wherein a guaranteed reservation is made with a first wireless network which uses a local area network access technology and a non-guaranteed reservation is made with a second wireless network which uses a wide area network access technology, wherein if resources are not available in the first wireless network, the terminal uses the second wireless network for a communication session.

26. (Original) The apparatus of claim 15, wherein the terminal is provided with information related to the types of resources which can be reserved, wherein the resources are reserved based upon the information.

27. (Canceled)